

09:47:54

OCA PAD AMENDMENT - PROJECT HEADER INFORMATION

09/25/96

Active

Project #: E-24-T02 Cost share #: Rev #: 7
Center # : 10/24-6-R8794-0A0 Center shr #: OCA file #:
Contract#: 721782 Mod #: 8 & 9 Work type : RES
Prime # : N00039-95-C-0002 Document : CONT
Contract entity: GTRC
Subprojects ? : N CFDA:
Main project #: PE #:

Project unit: ISYE Unit code: 02.010.124
Project director(s):
KIRLIK A ISYE (404)894-4055

Sponsor/division names: JOHNS HOPKINS / APPLIED PHYSICS
Sponsor/division codes: 240 / 019

Award period: 950920 to 960930 (performance) 960930 (reports)

Sponsor amount	New this change	Total to date
Contract value	(18,914.20)	36,715.80
Funded	(18,914.20)	36,715.80
Cost sharing amount		0.00

Does subcontracting plan apply ? : N

Title: ENVIRONMENT-TASK-OPERATOR MODEL (ETOM) DESIGN FRAMEWORK (EDF) DEVELOPMENT...

PROJECT ADMINISTRATION DATA

OCA contact: Anita D. Rowland 894-4820

Sponsor technical contact Sponsor issuing office

DAVID S. TILLMAN PETER W. TROLL
(000)- (410)792-5312

APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY ROOM 48-20 11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-6099	APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY ROOM 7-225 11100 JOHNS HOPKINS ROAD LAUREL, MD 20723-6099
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Security class (U,C,S,TS) : U ONR resident rep. is ACO (Y/N): N
Defense priority rating : supplemental sheet

Equipment title vests with: Sponsor X GIT
REF. ARTICLE 10, REPORTING OF MANAGEMENT ADMINISTRATION OF GOV'T PROPERTY

Administrative comments -

AMEND 8 AMENDS SOW TO DELETE TASK 2 AND DE-OBLIGATE ASSOCIATED FUNDS. AMEND 9
EXTENDS THE PERIOD OF PERFORMANCE.

Closeout Notice Date 18-JUN-1997

Project Number E-24-T02

Doch Id 38272

Center Number 10/24-6-R8794-OA0

Project Director KIRLIK, ALEXANDER

Project Unit ISYE

Sponsor JOHNS HOPKINS/APPLIED PHYSICS

Division Id 4886

Contract Number 721782

Contract Entity GTRC

Prime Contract Number N00039-95-C-0002

Title ENVIRONMENT-TASK-OPERATOR MODEL (ETOM) DESIGN/ FRAMEWORK (EDF)
DEVELOPMENT.

Effective Completion Date 30-SEP-1996 (Performance) 30-SEP-1996 (Reports)

Closeout Action:	Y/N	Date Submitted
Final Invoice or Copy of Final Invoice	Y	
Final Report of Inventions and/or Subcontracts	Y	
Government Property Inventory and Related Certificate	Y	
Classified Material Certificate	N	
Release and Assignment	Y	
Other	N	

Comments

Distribution Required:

Project Director/Principal Investigator	Y
Research Administrative Network	Y
Accounting	Y
Research Security Department	N
Reports Coordinator	Y
Research Property Team	Y
Supply Services Department	Y
Georgia Tech Research Corporation	Y
Project File	Y

NOTE: Final Patent Questionnaire sent to PDPI

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: October 1995

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Task Modeling
- HCI Design Document

Work Planned for Upcoming Month

- HCI Design for DSCS DIMS

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: November 1995

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Task Modeling
- HCI Design

Work Planned for Upcoming Month

- HCIs for DIMS

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: December 1995

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Modeling of DSCS (ODB reversion/comparison)
- HCI Design for ODB

Work Planned for Upcoming Month

- HCIs for ODB task

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: January 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Modeling of DSCS (ODB task)
- HCI Design for ODB

Work Planned for Upcoming Month

- HCIs for ODB task

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: February 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225

APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik

Richard A. Strauss

(404) 894-4318

strauss@chmsr.isye.gatech.edu

Work Summary

- Evaluation of current HCIs for the tasks of ODB Establishment and Subsystem Configuration Comparison.
- Preliminary modeling of the ODB Establishment and Subsystem Configuration Comparison tasks with ETOMs.
- Preliminary construction of revised HCIs for the ODB Establishment and Subsystem Configuration Comparison tasks.
- Preliminary investigation of the Java language to support future prototyping efforts.

Information gathered from preliminary analyses and meetings has revealed aspects of the current HCIs that are in potential need of revision. Efforts will be directed towards restructuring the HCIs so that they better accord with the needs of the operator.

A document that presents and reviews the construction of the ETOMs developed during this month of February is intended for delivery to APL by the end of this month.

Work Planned for Upcoming Month

- Continued construction and revision of HCIs for the tasks of ODB Establishment and Subsystem Configuration Comparison.
- Continued investigation of the Java language.

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: March 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Continued work on HCI designs for the FODB Establishment tasks.
- Attendance of PMR (3/4-3/6).
- Submission of HCI designs and walkthrough to Dave Tillman. Document title: 'HCI Update and Walkthrough' (3/15).

After several meetings and correspondence, issues relative to the establishment of the FODB and the comparison tasks appear to be resolved. Continued efforts will be directed at the evolution of the corresponding HCIs in response to this new level of understanding.

Work Planned for Upcoming Month

- Planned trip to consult on the final stages of HCI designs for the current instantiation of the DIMS.
- Investigate ways of recombining the functionality of the current designs into more suitable forms.

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: April 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Trip to APL (4/3-5) to evaluate current HCIs. Emphasis on evaluating FODB and comparison tasks.
- Submission of ODB critique and new HCIs for FODB establishment and subsystem comparison/dissemination tasks (4/5).
- Continued evaluation of Java language as a tool for planned simulation and prototyping efforts.

Work Planned for Upcoming Month

- Further work on Java.
- Design of prototyping test-bed.

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: ~~June~~^{MAY} 7, 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Efforts were focused exclusively on the development of a test-bed for the production and evaluation of future HCI designs. These efforts included:
 - Review and exploration of satellite technology, DSCS, and relevant simulation research
 - Learning and exploration of Java language
 - Preliminary modeling of Space Component of DSCS
 - Preliminary codification of model in Java
 - Testing/debugging of code

Work Planned for Upcoming Month

- Continued modeling of the DSCS and selected DOCS elements (DASA and DFCS).
- Preliminary coding of new models into the existing simulation.

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9, 10

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: June 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Efforts were focused exclusively on the development of a test-bed for the production and evaluation of future HCI designs. These efforts included:
 - Review and exploration of satellite technology, DSCS, and relevant simulation research
 - Preliminary codification of model in Java
 - Testing/debugging of code

Work Planned for Upcoming Month

- Continued modeling of the DSCS and selected DOCS elements (DASA and DFCS)
- Coding of new models into the existing simulation

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: July 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225

APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik

Richard A. Strauss

(404) 894-4318

strauss@chmsr.isye.gatech.edu

Work Summary

- Modeling and design for "Satellite Summary" HCI
 - Modeling of corresponding tasks
 - Construction of ETOMs
 - Initial design specifications for HCIs
- Coding of DSCS simulation
 - Focus on modeling the nonlinear behavior of DSCS transponders

Work Planned for Upcoming Month

- Continued modeling for HCIs
- Continued definition of the EDF
- Continued coding of simulation
- Exploration of the ODOC initiative

E-24-T02
13,14

MONTHLY PROGRESS REPORT

APL Contract Number: 721782

Date: August 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

Work Summary

- Modeling and design for "Satellite Summary" HCLs
- Required research to quantify simulation components
- Coding and debugging of DSCS simulation

Work Planned for Upcoming Month

- Continued modeling efforts
- Continued definition of the EDF
- Continued coding of simulation
- Exploration of the ODOC initiative

MONTHLY FISCAL REPORT

APL Contract Number: 721782

Date: 10/1/95 - 10/31/95

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

There were no invoices for the work performed (as stipulated by the starting date of the contract) submitted during this month. This was due to a delay in the arrival of the signed contract at the Georgia Institute of Technology. The attached BPS-15 form indicates this lack of submission by assigning 0.00 dollars to all designated expenditures.

APL SUBCONTRACT MONTHLY FISCAL REPORTFor Period Ending: 10/1/95 - 10/31/95Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	0.00	0.00	0.00	0.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	0.00	0.00	0.00	0.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ _____%					
Total					
3. Materials and Services	0.00	0.00	0.00	0.00	500.00
4. Equipment & Tooling	0.00	0.00	0.00	0.00	3,525.00
5. Subcontracts					
6. Travel	0.00	0.00	0.00	0.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	0.00	0.00	0.00	0.00	39,962.00
9. G & A @ <u>43%</u>	0.00	0.00	0.00	0.00	15,667.91
10. Total (Lines 8 and 9)	0.00	0.00	0.00	0.00	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	-
12. Grand Total	\$ -	\$ -	\$ -	\$ -	\$ 55,629.91

Total Amount Invoiced as of

(Voucher No. to incl) \$

Total Reimbursement
received to

(Voucher No. to incl) \$

Submitted By

6/27/96

Name

Date

Title

MONTHLY FISCAL REPORT

APL Contract Number: 721782

Date: 11/1/95 - 11/30/95

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

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APL SUBCONTRACT MONTHLY FISCAL REPORTFor Period Ending: 11/1/95 - 11/30/95Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	0.00	0.00	0.00	0.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	0.00	0.00	0.00	0.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ _____%					
Total					
3. Materials and Services	0.00	0.00	0.00	0.00	500.00
4. Equipment & Tooling	0.00	0.00	0.00	0.00	3,525.00
5. Subcontracts					
6. Travel	0.00	0.00	0.00	0.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	0.00	0.00	0.00	0.00	39,962.00
9. G & A @ <u>43%</u>	0.00	0.00	0.00	0.00	15,667.91
10. Total (Lines 8 and 9)	0.00	0.00	0.00	0.00	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	-
12. Grand Total	\$ -	\$ -	\$ -	\$ -	\$ 55,629.91

Total Amount Invoiced as of

(Voucher No. to incl) \$

Total Reimbursement
received to

(Voucher No. to incl) \$

Submitted By

Name

Date

Title

MONTHLY FISCAL REPORT

APL Contract Number: 721782

Date: 12/1/95 - 12/31/95

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

There were no invoices for the work performed (as stipulated by the starting date of the contract) submitted during this month. This was due to a delay in the arrival of the signed contract at the Georgia Institute of Technology. The attached BPS-15 form indicates this lack of submission by assigning 0.00 dollars to all designated expenditures.

APL SUBCONTRACT MONTHLY FISCAL REPORTFor Period Ending: 12/1/95 - 12/31/95Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	0.00	0.00	0.00	0.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	0.00	0.00	0.00	0.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ _____%					
Total					
3. Materials and Services	0.00	0.00	0.00	0.00	500.00
4. Equipment & Tooling	0.00	0.00	0.00	0.00	3,525.00
5. Subcontracts					
6. Travel	0.00	0.00	0.00	0.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	0.00	0.00	0.00	0.00	39,962.00
9. G & A @ <u>43 %</u>	0.00	0.00	0.00	0.00	15,667.91
10. Total (Lines 8 and 9)	0.00	0.00	0.00	0.00	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	-
12. Grand Total	\$ -	\$ -	\$ -	\$ -	\$ 55,629.91

Total Amount Invoiced as of

(Voucher No. to incl) \$

Total Reimbursement
received to

(Voucher No. to incl) \$

Submitted By

Name

Date

Title

MONTHLY FISCAL REPORT

APL Contract Number: 721782

Date: 1/1/96 - 1/31/96

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

There were no invoices for the work performed (as stipulated by the starting date of the contract) submitted during this month. This was due to a delay in the arrival of the signed contract at the Georgia Institute of Technology. The attached BPS-15 form indicates this lack of submission by assigning 0.00 dollars to all designated expenditures.

APL SUBCONTRACT MONTHLY FISCAL REPORT

For Period Ending: 1/1/96 - 1/31/96Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	0.00	0.00	0.00	0.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	0.00	0.00	0.00	0.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ _____%					
Total					
3. Materials and Services	0.00	0.00	0.00	0.00	500.00
4. Equipment & Tooling	0.00	0.00	0.00	0.00	3,525.00
5. Subcontracts					
6. Travel	0.00	0.00	0.00	0.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	0.00	0.00	0.00	0.00	39,962.00
9. G & A @ <u>43%</u>	0.00	0.00	0.00	0.00	15,667.91
10. Total (Lines 8 and 9)	0.00	0.00	0.00	0.00	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	-
12. Grand Total	\$ -	\$ -	\$ -	\$ -	\$ 55,629.91

Total Amount Invoiced as of

(Voucher No. to incl) \$

Total Reimbursement
received to

(Voucher No. to incl) \$

Submitted By

Name

Date

6/27/96

Title

MONTHLY FISCAL REPORT

APL Contract Number: 721782

Date: February 1996

To APL Contract Representative: Peter W. Troll, Rm. 7-225
APL Technical Contract Representative: David S. Tillman, Rm. 48-20

From: Georgia Tech Technical Contract Representative: Alex Kirlik
Richard A. Strauss
(404) 894-4318
strauss@chmsr.isye.gatech.edu

The following BPS-15 is the re-submission of an earlier BPS-15 to account for invoicing information at that time unavailable.

APL SUBCONTRACT MONTHLY FISCAL REPORTFor Period Ending: 2/1/96 - 2/29/96Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	2,800.00	2,800.00	5,600.00	5,600.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	2,800.00	2,800.00	5,600.00	5,600.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ _____%					
Total					
3. Materials and Services	0.00	0.00	0.00	0.00	500.00
4. Equipment & Tooling	0.00	0.00	0.00	0.00	3,525.00
5. Subcontracts					
6. Travel	0.00	0.00	0.00	0.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	2,800.00	2,800.00	5,600.00	5,600.00	39,962.00
9. G & A @ <u>43%</u>	1,204.00	1,204.00	2,408.00	2,408.00	15,667.91
10. Total (Lines 8 and 9)	4,004.00	4,004.00	8,008.00	8,008.00	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	0.00
12. Grand Total	\$ 4,004.00	\$ 4,004.00	\$ 8,008.00	\$ 8,008.00	\$ 55,629.91

Total Amount Invoiced as of

(Voucher No. to incl) \$

Total Reimbursement

(Voucher No. to incl) \$

received to

Submitted By

Name

Date

Title

APL SUBCONTRACT MONTHLY FISCAL REPORT

For Period Ending: 3/1/96 - 3/31/96Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	\$ 5,460.00	\$ 8,260.00	\$ 4,200.00	\$ 1,400.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	5,460.00	8,260.00	4,200.00	1,400.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ <u> </u> %					
Total					
3. Materials and Services	9.60	9.60	0.00	0.00	500.00
4. Equipment & Tooling	0.00	0.00	0.00	0.00	3,525.00
5. Subcontracts					
6. Travel	690.57	690.57	687.70	0.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	6,160.17	8,960.17	4,887.70	1,400.00	39,962.00
9. G & A @ <u>43</u> %	2,648.87	3,852.87	2,101.71	602.00	15,667.91
10. Total (Lines 8 and 9)	8,809.04	12,813.04	6,989.41	2,002.00	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	0.00
12. Grand Total	\$ 8,809.04	\$ 12,813.04	\$ 6,989.41	\$ 2,002.00	\$ 55,629.91

Total Amount Invoiced as of (Voucher No. to incl) \$

Total Reimbursement (Voucher No. to incl) \$

received to

Submitted By

Name

Date

Title

APL SUBCONTRACT MONTHLY FISCAL REPORTFor Period Ending: 4/1/96 - 4/30/96Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	\$ 1,400.00	\$ 9,660.00	\$ 2,800.00	\$ 1,400.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	1,400.00	9,660.00	2,800.00	1,400.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ _____%					
Total					
3. Materials and Services	370.61	380.21	372.99	0.00	500.00
4. Equipment & Tooling	0.00	0.00	0.00	0.00	3,525.00
5. Subcontracts					
6. Travel	283.80	974.37	403.90	0.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	2,054.41	11,014.58	3,576.89	1,400.00	39,962.00
9. G & A @ <u>43 %</u>	883.40	4,736.27	1,538.06	602.00	15,667.91
10. Total (Lines 8 and 9)	2,937.81	15,750.85	5,114.95	2,002.00	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	0.00
12. Grand Total	\$ 2,937.81	\$ 15,750.85	\$ 5,114.95	\$ 2,002.00	\$ 55,629.91

Total Amount Invoiced as of

(Voucher No. to incl) \$

Total Reimbursement
received to

(Voucher No. to incl) \$

Submitted By

Name

Date

Title

APL SUBCONTRACT MONTHLY FISCAL REPORT

For Period Ending: 5/1/96 - 5/31/96Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	1,400.00	11,060.00	1,400.00	1,400.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	1,400.00	11,060.00	1,400.00	1,400.00	25,992.00
2. <u>Manufacturing</u>					
Labor			Not Applicable		
Burden @ _____%					
Total					
3. Materials and Services	- Unknown at time of report -				500.00
4. Equipment & Tooling					3,525.00
5. Subcontracts			Not Applicable		
6. Travel	403.90	1,378.27	0.00	1,500.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	1,803.90	12,438.27	1,400.00	2,900.00	39,962.00
9. G & A @ <u>43%</u>	775.68	5,348.46	602.00	1,247.00	15,667.91
10. Total (Lines 8 and 9)	2,579.58	17,786.73	2,002.00	4,147.00	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	0.00
12. Grand Total	\$ 2,579.58	\$ 17,786.73	\$ 2,002.00	\$ 4,147.00	\$ 55,629.91

Total Amount Invoiced as of

(Voucher No. to incl) \$

Total Reimbursement
received to

(Voucher No. to incl) \$

Submitted By

Name

Date

Title

APL SUBCONTRACT MONTHLY FISCAL REPORT

For Period Ending: 6/1/96 - 6/30/96

Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	\$ 1,400.00	\$ 12,460.00	\$ 1,400.00	\$ 2,800.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	1,400.00	12,460.00	1,400.00	2,800.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ _____%					
Total					
3. Materials and Services	68.00	745.00	0.00	0.00	500.00
4. Equipment & Tooling	0.00	0.00	0.00	3,000.00	3,525.00
5. Subcontracts					
6. Travel	0.00	1,372.77	0.00	850.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	1,468.00	14,577.77	1,400.00	6,650.00	39,962.00
9. G & A @ <u>43%</u>	631.24	6,268.44	602.00	2,859.50	15,667.91
10. Total (Lines 8 and 9)	2,099.24	20,846.21	2,002.00	9,509.50	55,629.91
11. Fee or Profit	0.00	0.00	0.00	0.00	0.00
12. Grand Total	\$ 2,099.24	\$ 20,846.21	\$ 2,002.00	\$ 9,509.50	\$ 55,629.91

Total Amount Invoiced as of (Voucher No. to incl) \$

Total Reimbursement (Voucher No. to incl) \$

received to

Submitted By

Name

Date

Title

APL SUBCONTRACT MONTHLY FISCAL REPORT

For Period Ending

Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
1. <u>Engineering</u>					
Labor	2,950.19	15,410.19	2,800.00	2,800.00	\$ 25,000.00
Burden @ <u>24.8%</u>					992.00
Total	2,950.19	15,410.19	2,800.00	2,800.00	25,992.00
2. <u>Manufacturing</u>					
Labor					
Burden @ _____%					
Total					
3. Materials and Services	0.00	352.01	0.00	0.00	500.00
4. Equipment & Tooling	0.00	0.00	2,970.00	2,970.00	3,525.00
5. Subcontracts					
6. Travel	393.00	1,372.77	-	1,300.00	9,945.00
7. <u>Other Direct Costs</u>					
a.					
b.					
Total					
8. Total (Lines 1 thru 7)	3,343.19	17,134.97	5,770.00	7,070.00	39,962.00
9. G & A @ <u>43 %</u>	1,437.57	7,368.04	2,481.10	3,040.10	15,667.91
10. Total (Lines 8 and 9)	4,780.76	24,503.01	8,251.10	10,110.10	55,629.91
11. Fee or Profit	-	-	-	-	-
12. Grand Total	\$ 4,780.76	\$ 24,503.01	\$ 8,251.10	\$ 10,110.10	\$ 55,629.91

Total Amount Invoiced as of

(Voucher No. to incl) \$

Total Reimbursement
received to

(Voucher No. to incl) \$

Submitted By

Name

Date

Title

8/20/96

APL SUBCONTRACT MONTHLY FISCAL REPORTFor Period Ending: 8/1/96 - 8/31/96Contractor: Alex KirlikContract No. 721782Contract Amount: \$55,629.91

Type of Obligation	Expenditures		(3) Outstanding Commitments	(4) Estimated Costs (Expenditures plus Commitments)	
	(1) Current Month	(2) Cumulative Total		(5) Next Month	(6) Total at Compl.
Engineering					
Labor	3,368.85	18,779.04	3,159.53	3,159.53	\$ 25,000.00
Burden @ <u>26.6%</u>	151.88	191.98	96.00	96.00	992.00
Total	3,520.73	18,971.02	3,255.53	3,255.53	25,992.00
Manufacturing					
Labor					
Burden @ _____%					
Total					
Materials and Services	4.50	393.00	0.00	0.00	500.00
Equipment & Tooling	0.00	0.00	2,740.00	2,740.00	3,525.00
Subcontracts					
Travel	927.50	2,300.27	650.00	1,700.00	9,945.00
Other Direct Costs					
a.					
b.					
Total					
Total (Lines 1 thru 7)	4,452.73	21,664.29	6,645.53	7,695.53	39,962.00
G & A @ <u>49.5 %</u>	4,230.09	10,723.82	3,289.54	3,809.29	18,036.32
Total (Lines 8 and 9)	8,682.82	32,388.11	9,935.07	11,504.82	57,998.32
Fee or Profit	-	-	-	-	-
Grand Total	\$ 8,682.82	\$ 32,388.11	\$ 9,935.07	\$ 11,504.82	\$ 57,998.32

Amount Invoiced as of

(Voucher No. to incl)

\$

Reimbursement

(Voucher No. to incl)

\$

red to

Submitted By

Name

Date

Title

10/01/96

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